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GENERAL MEETING OF THE DEPARTMENT OF TECHNICAL SCIENCES
29 SEPTEMBER 1948

On 29 September 1948, at the meeting of the Department of Technical Sciences, Academician B. A. Vvedenskiy, Academician-Secretary of the Department, presented the plan for scientific research work for the Department for 1949 Not included in this report/. Corresponding Member of the Academy of Sciences USSR, M. A. Kapelyushnikov presented a paper "Problems Encountered in Drilling Deep Oil Wells and Methods of Solving Them."

In his report, Kapelyushnikov acquainted those attending, with the basic problems in drilling down to new petroleum strata, and particularly in drilling very deep wells to the highly productive petroleum strata 5,000 meters deep. He showed some of the results of work which had been achieved in that field in the Institute of Petroleum, Academy of Sciences USSR (formerly the Institute of Combustible Minerals). For instance hydraulic elevators have replaced the block and tackle system, still used at present for lowering and lifting operations. The Moscow Petroleum Institute imeni I. M. Gubkin helped in development of a mechanized automatic system for lowering and lifting operations in drilling. New varieties of turbo-drills, automatic spools for winding back drilling pipe, and a new system of lowering and lifting operations was also developed. The Institute conducted research on the loss of power during the drilling of deep wells; determined factors governing the operation of bits; conducted a study to determine the durability of bits; explained the use of gearless transmission in drilling; and conducted research on the use of sand-cement mixtures for tamping of wells.

Complex problems, which at present face Soviet scientists, are the creation of an effective method for drilling with beetle engines, the solution of problems relating to bits, problems on safety of drilling and bracing work, mechanization of drilling, and the development of methods of preparing and using clay solutions and tamping of the well under conditions of high pressure and temperature.

Successful solution of these problems by the Institute of Petroleum, Academy of Sciences USSR, allied institutes of the Academy of Sciences USSR, and branch institutes of the Petroleum Industry guarantee development of petroleum work technologies.

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The assistance of Academician A. A. Ternigorov, A. D. Shevyakov, Ye. B. Kabanov (All-Union Petroleum Scientific Research Institute), I. P. Kirilenko (Department of Technical Sciences), and E. I. Gusev (Moscow Petroleum Institute named I. M. Gubkin), was acknowledged in discussion of the report.

The general meeting decided that the problems discussed in M. A. Kapolyushnikov's work have practical importance in the solution of problems of drilling deep-oil wells, in particular they acknowledged the necessity for organizing work on the problem of rock crushing in the Institute of Petroleum, Academy of Sciences USSR.

The meeting also selected some laboratory directors: Corresponding Member of the Academy of Sciences USSR, V. P. Vologdin, was selected as Director of the Laboratory of High Frequency Electrothermics; Corresponding Member of the Academy of Sciences USSR, V. I. Kovalenkov, was selected as Director of the Laboratory on Solution of Problems of Wire Communications.

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